

Allergies and risk of colorectal cancer: a systematic review and meta-analysis of observational studies

Supplementary Materials

Supplementary Table S1: Detailed search strategy for pubmed

1. "Allergy and Immunology" [Mesh]
2. "Asthma" [Mesh]
3. "Allergens" [Mesh]
4. "Rhinitis, Allergic, Seasonal" [Mesh]
5. (Allerg* OR Hypersensitivit* OR Asthma* OR atopy OR 'hay fever' OR hayfever) [Title/Abstract]
6. 1 OR 2 OR 3 OR 4 OR 5
7. "Colorectal Neoplasms" [Mesh]
8. "Colonic Neoplasms" [Mesh]
9. "Rectal Neoplasms" [Mesh]
10. (((colorect*[Title/Abstract]) OR colon*[Title/Abstract]) OR rectum [Title/Abstract]) OR rectal [Title/Abstract]
11. (((((((cancer*[Title/Abstract]) OR tumor*[Title/Abstract]) OR tumour*[Title/Abstract]) OR carcinom*[Title/Abstract]) OR neoplas*[Title/Abstract]) OR adenocarcinoma*[Title/Abstract]) OR malignan*[Title/Abstract])
12. 10 AND 11
13. 7 OR 8 OR 9 OR 12
14. 6 AND 13

Supplementary Table S2: Detailed search strategy for embase

1. "allergy"/exp
2. 'atopy'/exp
3. 'pollen allergy'/exp
4. 1 OR 2 OR 3
5. (Allerg* OR Hypersensitivit* OR Asthma* OR atopy OR 'hay fever' OR hayfever) :ab,ti
6. 4 OR 5
7. 'colorectal cancer'/exp
8. 'colon cancer'/exp
9. 'rectum cancer'/exp
10. ((colorect* OR colon* OR rectum OR rectal) and (cancer* OR tumor* OR tumour* OR carcinom* OR neoplas* OR adenocarcinoma* OR malignan*)):ab,ti
11. 7 OR 8 OR 9 OR 10
12. 6 AND 11

Supplementary Table S3: Methodological quality of included studies based on the Newcastle–Ottawa scale for cohort studies

Observational studies^a					
Study	Design	Selection	Comparability	Outcome/exposure	Overall quality (max 9)
Tambe NA et al. 2015	Cohort	★★★	★★	★★	7
Hemminki K et al. 2014	Cohort	★★★★		★★	6
Skaaby T et al. 2014	Cohort	★★★★	★	★★	7
Jacobs EJ et al. 2013	Cohort	★★★	★★	★★★★	8
Chae YK et al. 2012	Cohort	★★★	★★	★★	7
Ji J et al. 2009	Cohort	★★★★		★★	6
Prizment AE et al. 2007	Cohort	★★	★★	★★★★	7
Talbot-Smith A et al. 2002	Cohort	★★★	★	★★★★	7
Vesterinen E et al. 1993	Cohort	★★★★	★	★★	7

^aStudy quality assessment of observational studies performed using the Newcastle–Ottawa scale (each asterisk represents if individual criterion within the subsection were fulfilled).

Supplementary Table S4: PRISMA 2009 Checklist. See Supplementary_Table_S4